

SUCCESS MANTRA



PROGRAMMING & PROBLEM SOLVING

Introduction

- Declaration & Initialization
- Floating Point Issues, Control Instructions,
- Structure, Union Enum, Functions,
- C Pre Processors, Pointers, Arrays, Strings,
- Expressions, Input/Output, Extern,
- Bitwise Operators, Typedef, Const, Static,
- Memory Allocation, Command Line Augments
- Variable No. of Arguments, Complicated Declarations
- C PROGRAMMING
- Introduction, main() function
- if statement, if and else
- if, else if and else, switch statments

Loops

- while loop
- do-while loop
- for loop
- break
- continue

Strings

- String Basics
- Program to find the Length of the String using builtin function
- Program to find the length of the String with out using built in function
- Program to find the length of the String using while loop
- Program to find the length of the String using do-while loop
- Program to find the length of the String using for loop
- Program to copy one String into another string
- Program to reverse a String using global variables
- Program to reverse a String using local variables
- Program to compare two String without using builtin functions
- Program to check whether string is palindrome or not
- Program to concatenate two strings
- Program to convert a string from lower case to upper case
- Program to print the ASCII equivalent of alphabets in a string
- Program to count the number of Vowels, Consonants and special symbols in a string
- Program to replace a Vowel with a special symbol

Pointers

- Pointer basics, Reading different types of pointer
- Pointer creation, Pointer usage, Pointer to Strings
- Program to copy one string to another using pointer
- Parameter Passing Techniques in C
- Pass by value, Pass by reference

- Memory allocation techniques
- Static memory allocation
- Dynamic memory allocation

TECHNICAL APTITUDE

DATA STRUCTURES

INTRODUCTION

- Array Basics, Stack Basics
- Difference between Arrays and Stacks
- Program to Push, Pop and Display operation on Stacks
- Queue basics
- Program to Insert an element at rear of Queue
- Program to Delete an element at the beginning of Queue
- Program to display elements in Queue
- Circular Queue
- Program to Insert an element in a circular queue
- Program to delete an element in a circular queue
- Program to display elements in a circular queue
- Program to insert, delete and display elements in a circular queue using pointers
- Structures
- Double Ended Queue
- Polish Notation

Singly Linked Lists

- Singly LinkedLists
- Basics of singly LinkedList
- Program to insert an element at front in singly linked list
- Program to insert an element at rear in singly linked list
- Program to delete an element from front in singly linked list
- Program to delete an element from rear in singly linked list
- Program to display elements in a singly linked list
- Program to insert an element at use is specific position
- Program to delete an element from user's specific position
- Sort linked list
- Reverse link list

Doubly Linked Lists

- Basics of Doubly LinkedList
- Program to insert an element at front in doubly linked list
- Program to insert an element at rear in doubly linked list
- Program to delete an element from front in doubly linked list
- Program to delete an element from rear in doubly linked list
- Program to display elements in a doubly linked list
- Program to insert an element at use is specific position
- Program to delete an element from user's specific position

Circular Linked Lists

- Circular Linked Lists, Basics of Circular LinkedList
- Program to insert an element at front in Circular linked list
- Program to insert an element at rear in Circular linked list
- Program to delete an element from front in Circular linked list
- Program to delete an element from rear in Circular linked list
- Program to display elements in a Circular linked list
- Program to insert an element at use is specific position
- Program to delete an element from user's specific position

Stacks and queues

- Program to concatenate two linked lists

- Program to count the number of nodes in the linked list
- Program to add the data nodes of in the linked list
- Program to reverse a linked list
- Program to search an element in a linked list
- Program to delete a node in the linked list
- Program to insert an element towards the left of data node in linked list
- Program to insert an element towards the right of data node in linked list
- Program to find minimum element in the linked list
- Program to find maximum element in the linked list
- Program to count the number of even and odd number of elements in a linked list

Static and Dynamic memory Location

- Program to compare two linked lists
- Program to delete duplicate element in a linked list

Tree Basics

- Pre order traversal, Post order traversal, In order traversal
- Program to create a Binary Search Tree
- Program to find a minimum element in a Binary Search Tree
- Program to find a maximum element in a Binary Search Tree
- Binary Search Tree
- Threaded Binary Search Tree
- Heap Tree

SQL

Introduction to SQL

- Categorize the different types of SQL statements
- Software Installation
- Database Creation
- Log on to the database.

Retrieve Data using the SQL SELECT Statement

- Select Table Data With All Columns
- Select Table Data With Specific Columns
- Use Arithmetic Operators
- Use Concatenation Operators
- Use Column Alias
- DESCRIBE command to display the table structure
- Use of Distinct

Learn to Restrict and Sort Data

- Use WHERE clause to limit the output retrieved
- Between , In() , Is Null and Like
- ORDER BY clause to sort Data

Use of DDL Statements to Create and Manage Tables

- Create a simple table
- Alter and Truncate Table
- Drop Table and Concept of Recyclebin

Data Manipulation Statements

- Describe each DML statement
- Insert rows into a table
- Change rows in a table by the UPDATE statement
- Delete rows from a table with the DELETE statement
- Save and discard changes with the COMMIT and ROLLBACK statements

Constraints

- Stop Entry of Invalid Data Through CONSTRAINTS

- Add Primary Key , Foreign Key
- Not Null , Unique and Check Constraints

Usage of Functions to Customize Output

- Differences between single row and multiple row functions
- Manipulate strings with character function in the SELECT and WHERE clauses
- Manipulate numbers with the ROUND, TRUNC, and MOD functions
- Manipulate dates with the DATE functions
- ROWNUM and ROWID

Invoke Conversion Functions and Conditional Expressions

- Describe implicit and explicit data type conversion
- Use the TO_CHAR, TO_NUMBER, and TO_DATE conversion functions
- Nest multiple functions
- Use of Case Expression

Aggregate Data Using the Group Function

- Use the aggregation functions to produce meaningful reports
- Divide the retrieved data in groups by using the GROUP BY clause
- Exclude groups of data by using the HAVING clause

Display Data From Multiple Tables Using Joins

- Write SELECT statements to access data from more than one table
- View data that does not meet join condition by using outer joins
- Join a table to itself by using a self-join

Use Sub-queries to Solve Queries

- Describe the types of problem that sub-queries can solve
- Define sub-queries
- Write single-row and multiple-row sub-queries
- Use of Exists

Other Schema Objects

- Create a View
- Retrieve data from views
- Create, maintain, and use sequences
- Create and maintain indexes
- Create synonyms

Control User Access

- Create Users
- System Privileges & Object Privileges
- Granting Privileges
- Manage Privileges Through Role
- Revoke Object Privileges

REASONING & QUANTITATIVE APTITUDE

Quantitative Ability Test

- Basic Mathematics
- Divisibility
- HCF and LCM
- Numbers, decimal fractions and power

Applied Mathematics

- Profit and Loss
- Simple and Compound Interest
- Time, Speed and Distance
- Inverse

Engineering Mathematics

- Logarithms
- Permutation and Combinations
- Probability

Logical Ability Test

- Deductive Reasoning
- Coding deductive logic
- Data Sufficiency, Directional Sense, Logical Word Sequence
- Objective Reasoning
- Selection decision tables
- Puzzles

Inductive reasoning

- Coding pattern and Number series pattern recognition
- Analogy and Classification pattern recognition

Abductive Reasoning

- Logical word sequence
- Data sufficiency

SOFT SKILLS

- Group discussion
- Resume Writing
- HR Interview
- Vocabulary
- Synonyms
- Antonyms
- Contextual Vocabulary
- Grammar
- Error Identification
- Sentence Improvement and Construction
- Comprehension
- Reading Comprehension

Partners :



Java



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